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Abstract

The thesis 55 with.,2 fig., 14 tab., 45 sources.

INHIBITORS, PROTEINASES, PHYTOPATHOGENS, METABOLITES, ANTIOXIDANT ACTIVITY.

Objects of research: different types of a lupine, peas, rye, wheat, triticale, seeds of soy and tubers of potatoes.

Purposes: physical and chemical and functional analyses of proteinaceous inhibitors of proteinases of plants as antistress biopolymers for clarification of mechanisms of resistance of plants to phytopathogens and receiving cereals, tolerant to diseases, and bean plants.

The variation of level of activity of inhibitors of trypsin, chymotrypsin and subtilizin in seeds of bean and cereal cultures is established.

Existence in seeds of different types of bean and cereal cultures of the endogenous inhibitors specific to proteinases of phytopathogenic mushrooms of the sort *Fusarium*, *Colletotrichum*, *Helminthosporium*, *Botrytis* is established. Specific and high-quality specificity of the specified inhibitors is established.

The oppressing action of the preparations of inhibitors received by us from vegetable raw materials on activity of proteinases, growth and development of phytopathogens is established.

Results of researches prove participation of inhibitors of proteinases in protection of plants against diseases.

